



MARS Reporting & Querying

What's New in SAP BusinessObjects BusinessIntelligence 4.1



Overview

- This document highlights **noticeable new features** of version 4.1 of SAP BusinessObjects BusinessIntelligence, and the value added for end users.
- MARS released this version in **April 2015**.
- Intended Audience:
 - This document is for MARS Reporting and Querying Users that have experience or not, using the prior version of SAP BusinessObjects Business Intelligence.
 - **Page 4-11 are for Business & Power users.**
 - **Page 12 and above are for Power Users only.**



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New Features for the MARS R&Q Business & Power users - Overview

Application/Feature	Comment / Value added
Launch Pad (New InfoView !) <ul style="list-style-type: none"> Customizable home tab Tabbed interface 	<p>Customizable HOME tab may contain recently opened documents and new inbox objects.</p> <p>Tabs based browsing: reports open up in tabs</p> <p>It is possible to pin frequently used documents into tabs: It saves a lot of time for users and it is fairly faster navigation than in InfoView (XI 3.1)</p>
Launch Pad <ul style="list-style-type: none"> HTML mode to view WebI documents 	<p>The HTML mode doesn't require downloading Java. Therefore, all the Java security popups and warnings will not be displayed any more.</p>
Web Intelligence <ul style="list-style-type: none"> Notification before expiring session and ability to refresh it by simple click 	<p>This is one of the things which improves the user experience. In BO 3.1, the user was kicked out from the session without notification, which was bothersome.</p>
Web Intelligence <ul style="list-style-type: none"> Additional export options 	<p>Full support of excel exporting. It means the rows limit is increased from 65k to about 1M rows. Furthermore, images are exported to XLSX as well.</p>
Web Intelligence <ul style="list-style-type: none"> Folding/unfolding 	<p>Excel "drilling" alias folding/unfolding for tables is available.</p>
Web Intelligence <ul style="list-style-type: none"> Ability to freeze rows and columns in a table 	<p>Freezing headers or columns is something what excel fanatics (and not only them) voted for years. Finally it is here. And it works great.</p>
Web Intelligence <ul style="list-style-type: none"> Better dependent (nested) prompts 	<p>Nested prompts behavior is improved- if you selected prompt without filling the previous one (on which is specific prompt dependent), there is link to it.</p>
BI Platform <ul style="list-style-type: none"> Significant performance improvement 	<p>Reduction of server CPU load and better handling of large documents</p>



BI Launch Pad

For the MARS R&Q Business & Power Users

New Interface: “InfoView” is now “BI Launch Pad”

The screenshot displays the MARS BI Launch Pad interface. At the top, a header bar includes the MARS logo, a welcome message for 'Administrator', and navigation links for 'Applications', 'Preferences', 'Help menu', and 'Log off'. Below this, a secondary bar features two main navigation tabs: 'Home' and 'Documents', both highlighted with yellow borders. The main content area is divided into several panels. On the left, under 'My Recently Viewed Documents', there are links for 'Lookup - Org Codes' and 'Listing - Organizations'. Below this, a yellow-bordered box contains the text: 'The new interface features two main navigation tabs: the Home tab and the Documents tab. Other objects open in new tabs or windows, depending on your user preferences.' Further down, 'My Recently Run Documents' lists 'TOO10 Billet Report (Live)' and three instances of 'NWS Budget Fact Sheet'. To the right, '0 unread messages in My Inbox' shows 'No unread messages' and a 'See more...' link. Below that, '0 Unread Alerts' shows 'No unread alerts'. On the far right, 'My Applications' displays a vertical stack of icons: a document with a blue arrow, a 3D cube, a gear with a keypad, a green diamond, and a document with a blue arrow.

Welcome: **Administrator** | Applications ▾ Preferences Help menu ▾ | Log off

Home Documents

▼ My Recently Viewed Documents

- Lookup - Org Codes
- Listing - Organizations

The new interface features two main navigation tabs: the Home tab and the Documents tab. Other objects open in new tabs or windows, depending on your user preferences.

▼ My Recently Run Documents

- TOO10 Billet Report (Live)
- NWS Budget Fact Sheet
- NWS Budget Fact Sheet
- NWS Budget Fact Sheet
- NWS Budget Fact Sheet

▼ 0 unread messages in My Inbox

No unread messages

See more...

▼ My Applications

- [Icon: Document with blue arrow]
- [Icon: 3D cube]
- [Icon: Gear with keypad]
- [Icon: Green diamond]
- [Icon: Document with blue arrow]

Default Home Tab Layout

The screenshot shows the MARS application interface. At the top, there is a navigation bar with the MARS logo, a welcome message for the Administrator, and links for Applications, Preferences, Help menu, and Log off. Below this is a tab bar with 'Home' and 'Documents'. The main content area is divided into several modules:

- My Recently Viewed Documents:** A list of documents including 'Lookup - Org Codes', 'Listing - Organizations', 'MARS NOA:', 'TOO10 Billet', 'Listing - Pro', 'MARS NOA:', 'MARS 09WC', 'List Reports', 'MARS PI Re', and 'MARS Resp'.
- 0 unread messages in My Inbox:** A section indicating no unread messages.
- My Applications:** A section displaying various application icons.
- My Recently Run Documents:** A list of documents including 'TOO10 Billet Report (Live)', 'NWS Budget Fact Sheet', and 'MWS Budget Fact Sheet'.
- 0 Unread Alerts:** A section indicating no unread alerts.

A callout box highlights the default Home tab layout modules:

The default Home tab layout contains these five modules:

- My Recently Viewed Documents
- Unread Messages in My Inbox
- My Applications
- My Recently Run Documents
- Unread Alerts

You or your administrator can also design a custom BI workspace and set it as the default Home tab for different users and groups.

Document Tab

Welcome: **Administrator** | Applications ▾ | Preferences | Help menu ▾ | Log off

Home Documents

View ▾ New ▾ Organize ▾ Send ▾ More Actions ▾ Details

My Documents

- My Favorites
- Inbox
- My Alerts
- Subscribed Alerts
- Personal Categories

Title ^	Type	Created By
~Webintelligence	Folder	Administrator
Development	Folder	Administrator
Francis	Folder	Administrator
Thankir	Folder	Administrator
Average salary NWS	Web Intelligence	Administrator
CR049 - Monthly Backlog	Web Intelligence	Administrator
CR091 - C-suite User Profile	Web Intelligence	Administrator
HIC-MIC Analysis	Web Intelligence	Administrator
HICMIC	Web Intelligence	Administrator
Labor Project hours	Web Intelligence	Administrator

The Documents tab provides access to the repository of business intelligence content.

The Documents tab provides a left-hand navigation panel with drawers that let you switch easily between different views of the repository. The Details panel lets you view document metadata as you browse.

Folders

Categories

Search

Total: 36 items

Platform Search functionality

The screenshot displays the MARS application interface. At the top, a navigation bar includes the MARS logo, a welcome message for the Administrator, and links for Applications, Preferences, Help menu, and Log off. A search bar on the right contains the text 'MARS'. Below the navigation bar, a 'Documents' tab is active. The left sidebar shows a 'Search' section with a search bar containing 'MARS' and a 'Refine Search Results By:' section with facets for 'type' and 'location'. The 'type' facet lists 'web intelligence (181)', 'hyperlink (6)', 'user (2)', 'user group (2)', 'program (1)', and 'More...'. The 'location' facet lists '00 noaa (105)', '50 oar (40)', 'user folders (22)', '20 nws (10)', 'cfo 1r-bo4dev 1.hq.nws.noaa (7)', and 'More...'. The 'Refresh Time' section shows 'All (194)' and 'Last Year (173)'. The main content area, titled 'Search Results', displays a list of search results. The first result is 'MARS Employee Overhead : 9265' with a detail link for 'MARS Labor Data for a particular pay period'. The second result is 'MARS PI Reports' with a detail link for 'YTD MARS Data differentiating MARS Labor and other objects, summarized by project-task, with funding source and balances'. The third result is 'MARS PI Reports' with a detail link for 'YTD MARS Data differentia'. The fourth result is 'C 00 NOAA MARS Privacy' with a detail link for 'C 00 NOAA --> C 00 NOAA'. The fifth result is 'MARS Labor Comparison b' with a detail link for 'YTD Comparison of CBS and'. The sixth result is 'MARS Allot-BOP-Allowance' with a detail link for 'Compares the CBS Allotmen'. A yellow box highlights the search bar and the 'Refine Search Results By:' section. A yellow box highlights the search results list. A yellow box highlights the text: 'Platform Search functionality and performance have been improved. When you type the text that you want to locate in the Search field in the toolbar, quick search functionality shows the top six results sorted by relevance as you type. Search goes through the metadata and content of documents that are found in the repository and in Explorer. You can also use advanced syntax such as Boolean, phrase, and attribute values in your search. When you run your search, your results are listed in the Search drawer and sorted by facet. These facets group your results together by InfoObject metadata, document metadata, and document content.'

Platform Search functionality and performance have been improved. When you type the text that you want to locate in the Search field in the toolbar, quick search functionality shows the top six results sorted by relevance as you type.

Search goes through the metadata and content of documents that are found in the repository and in Explorer. You can also use advanced syntax such as Boolean, phrase, and attribute values in your search.

When you run your search, your results are listed in the Search drawer and sorted by facet. These facets group your results together by InfoObject metadata, document metadata, and document content.

Pinning frequently used documents

The screenshot displays the MARS Financial Statement Graph application. The top navigation bar includes 'Home', 'Documents', and 'MARS Financial Stat...'. A yellow box highlights the 'Pin' icon (a document with a pushpin) in the toolbar. A yellow callout box explains: 'Documents that you frequently access can be opened as tabs and pinned. The next time you log onto BI launch pad, pinned document tabs are automatically ready for viewing.'

The left sidebar shows a 'Navigation Map' with a tree structure:

- MARS Financial Statement - Graph
 - Direct Funds
 - Reimbursable Funds
 - Internal Fund
 - Transfers-In
 - FTE by Org
 - Report Notes

The main content area features the NOAA logo and the title 'Fiscal Year 2012 - Financial Statement Graph - through September'. Below the title, it specifies 'Direct Funds by Fund Group ; Organizations: *'. A vertical axis on the left of the graph area is labeled with values from \$20.0 K to \$100.0 K in \$10.0 K increments. A yellow warning icon is visible at the top of this axis.

Notification before expiring session

The screenshot shows a web application window titled "OMAO Personnel Summary". The interface includes a top navigation bar with "Organize", "Send", "More Actions", and "Details" tabs. A left sidebar contains a tree view with items like "d", "sis", "rts", "iance Reports", "Entry", "of Organization", "nce Reporting", and "Eastern Region". The main content area displays a table with columns "Title", "Type", and "Last Run". A modal dialog box titled "Session Timeout Warning" is overlaid on the table, displaying the message: "Your user session will expire in 1 minute(s). Would you like to continue your user session or log off?". The dialog has "Continue" and "Log Off" buttons.

Title ^	Type	Last Run
NOAA TO - Add Billet	Hyperlink	
NOAA T		
NOAA T		
NWS Te		
OMAO M		
OMAO P		
TO000 Organization Chart	Web Intelligence	
TO010 Billet Report (Live)	Web Intelligence	
TO010H Billet Report (Historical)	Web Intelligence	
TO012 Accession and Separations	Web Intelligence	
TO013 Employee Listing	Web Intelligence	
TO014 Position Listing	Web Intelligence	



Web Intelligence

For the MARS R&Q Business & Power Users

Freeze header rows or columns

The screenshot shows the MARS web application interface. The top navigation bar includes 'Home', 'Documents', and 'OMAO Personnel Su...'. The main toolbar contains various icons and buttons, including 'Freeze', which is highlighted with a yellow box. A dropdown menu is open from the 'Freeze' button, showing two options: 'Freeze Header Rows' and 'Freeze Header Columns'. The left sidebar shows a 'Navigation Map' with a tree structure: 'OMAO Personnel Summary' (expanded), 'Personnel Counts', 'NOAA Corp by Name', 'Civilians On Board', and 'Civilians On Board (1)'. The main content area displays a table with the following data:

			NOAA Corps
OMAO	08-01-0003-00-00-00-00	NOAA CORPS BLOCK FUNDING	317

In reading mode, you can freeze column headers or a certain number of columns at the left side of table to ensure that they remain visible while you scroll within the report

Select a column header to enable the *Freeze button*

Folding / Unfolding

Welcome: **Administrator** | Applications ▾ Preferences Help menu

Home Documents **Labor Project hours**

Web Intelligence ▾ [Icons] [Track] ▾ [Drill] ▾ [Filter Bar] [Freeze] ▾ **Outline**

Navigation Map ▾

- Labor Project hours
 - Report 1**

Click to Unfold

2010

The *outline* feature allows you to fold and unfold sections of a document to show and hide item

Show Outline

This option shows or hides the outline. It will provide the possibility to fold or unfold report elements.

Full Name	Project Code	Task Code	Hours	Project Descr	Task Descr
ANDRADE, CHARL	09WGALB	PLB	157.50	LABOR DEFAULT M	DEFAULT LABOR M
ANDRADE, CHARL	17K3N23	P00	295.25	DEPARTMENT OF I	NO TASK
ANDRADE, CHARL	1CK3FAR	P5D	18.50	DARRF BASE	DUWAMISH RIVER
ANDRADE, CHARL	1CK3FAR	PDM	141.50	DARRF BASE	DARRP MANAGEMI
ANDRADE, CHARL	1CK3FAR	PDT	44.00	DARRF BASE	DARRP TRAINING
ANDRADE, CHARL	1CK3FAR	PHF	10.00	DARRF BASE	HANFORD, WA, NR
ANDRADE, CHARL	H8K3N03	P00	63.00	ORR-COASTAL PR	CRPRD BASE
ANDRADE, CHARL	H8K3N03	PDT	23.50	ORR-COASTAL PR	DARRP TRAINING
BAKER, GREGORY	09WGALB	PLB	34.00	LABOR DEFAULT M	DEFAULT LABOR M
BAKER, GREGORY	17K3FHA	P00	36.00	OIL SPILL NRDA	CASTRO CONVEICH

Cascading LOV with a flattened display

Prompts

Prompts Summary

- ✓ Enter Last Name **Smith**
- ✓ Enter First Name **Lindsey**
- ◆ Enter values for Employee Id:

Enter values for Employee Id:

Type a value:

Employee Id

159

- *Employee Id* value is populated based on the values of the first 2 prompt criteria.
- The flattened hierarchy display (rather than using the hierarchical display) allows for manual input of values and allows for value searching at each level of the hierarchy.



Web Intelligence

For the MARS Power User

New Features for the MARS R&Q Power users - Overview

Application/Feature	Comment / Value added
Web Intelligence <ul style="list-style-type: none"> New user interface 	New ribbon interface similar to Office 2007, but navigation in edit mode is considered to be a little clearer in XI 3.1.
Web Intelligence <ul style="list-style-type: none"> Data preview 	It is possible to preview data even for one query.
Web Intelligence – Charts features <ul style="list-style-type: none"> New graph types Design improved Enhanced options 	<p>There are new graph types such as s Scatter Bubble, Polar Bubble, Dual Axes Charts, Heat Maps, Box Plots, Series Pie Charts and Tag Cloud, Waterfall chart . Now you can create professional looking graphs .</p> <p>You may assign shadows and lightning effects, gradient - it is similar change as it was between excel 2003 graphs and excel 2007 graphs. For possibilities of customizing chart look it is good to know that you can finally assign different axis values (for specific chart types), choose from predefined color palettes preferred style or set color transparency.</p> <p>You can create more custom color graph palettes directly in WebI. You may also define line width. As a result, WebI charts are fairly better and more importantly, report charts customization/recreation is faster.</p>
Web Intelligence – Improved copying <ul style="list-style-type: none"> Cell format copy Object copy between documents 	<p><i>Cell format copy:</i> facilitates setting the right format for selected objects.</p> <p><i>Object copy between documents:</i> It is great enhancement when working with multiple documents or reports. It has many limitations though - users are unable to copy sections.</p>
Web Intelligence <ul style="list-style-type: none"> Hiding abilities 	<p>1) It is possible to hide column very simply. Works only on dimensions.</p> <p>2) It is possible to use hide when condition not only on section (XI3.1) but on a table as well. And because tables are copy-able elements to other documents, users may benefit from it even more.</p>
Web Intelligence <ul style="list-style-type: none"> Object value selector 	This feature will benefit those who write many formulas.
Web Intelligence <ul style="list-style-type: none"> Group by Variables 	Great feature for users who need to create their own lookup quickly without redesigning universe or data layer.
Web Intelligence <ul style="list-style-type: none"> Default hierarchy level 	Usable for those who use drill functionality a lot. The hierarchy in a table was automatically collapsed to the root hierarchy member when you refreshed (or purged data) from a document. Not anymore, now you have an option - the right-click contextual menu for a report table and there you can select desired default drill level.

Perform analysis on hierarchically organized data

The screenshot displays a BI tool interface with a 'Query Panel' on the left and a 'Member Selector' dialog box in the center. The 'Query Panel' shows a 'Universe outline' for 'Adventure_Works_CR' with a tree structure including 'Account', 'Customer', 'Date', 'Delivery Date', 'Department', 'Destination Currency', 'Employee', 'Geography', 'Internet Sales Order Details', 'Organization', and 'Product'. The 'Customer' hierarchy is expanded, showing 'Location', 'Demographic', 'Contacts', and 'Customer Geography'. The 'Member Selector' dialog box is open, showing a list of members under the 'Members' tab. The list includes 'All Customers', 'Australia', 'Canada', 'France', 'Germany', 'United Kingdom', and 'United States'. 'Canada' and 'France' are selected. A text box in the center of the dialog explains that Web Intelligence enables analysis on hierarchically organized data using analysis dimensions, hierarchies, levels, attributes, named sets, and calculated members. It also states that in reports, data can be explored by expanding and collapsing hierarchy members, and measures are calculated according to their position in the hierarchy. The dialog has 'OK' and 'Cancel' buttons at the bottom.

Query Panel

Add Query

Universe outline

Adventure_Works_CR

Type here to filter tree

- Adventure_Works_CR
 - Account
 - Account
 - Account Number
 - Account Type
 - Accounts
 - Summary P&L
 - Customer
 - Location
 - Demographic
 - Contacts
 - Customer Geography
 - Date
 - Delivery Date
 - Department
 - Destination Currency
 - Employee
 - Geography
 - Internet Sales Order Details
 - Organization
 - Product

Result Objects

Customer Geography

Query Filters

To filter the query, drag predefined

Member Selector

Members Metadata Prompt

- All Customers
- Australia
- Canada
- France
- Germany
- United Kingdom
- United States

Web Intelligence now enables you to build queries and perform analysis on hierarchically organized data using the following objects: analysis dimensions, hierarchies, levels, attributes, named sets, and calculated members.

In your reports, you can explore the data by expanding and collapsing hierarchy members, and measures are calculated according to their position in the hierarchy. All existing features, such as sorts, data synchronization, and breaks, work with hierarchical objects.

France

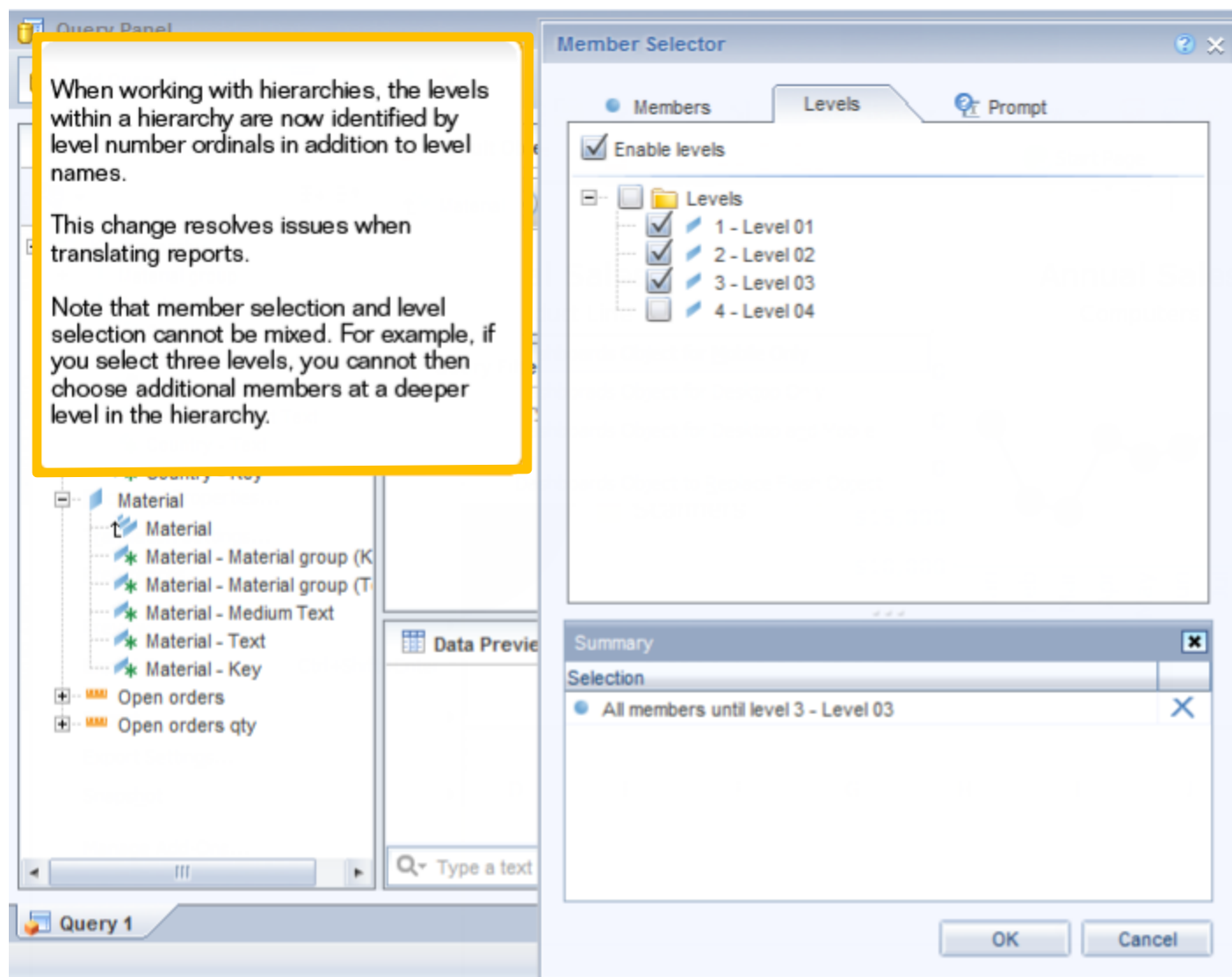
OK Cancel

Level number identifies levels within a hierarchy

When working with hierarchies, the levels within a hierarchy are now identified by level number ordinals in addition to level names.

This change resolves issues when translating reports.

Note that member selection and level selection cannot be mixed. For example, if you select three levels, you cannot then choose additional members at a deeper level in the hierarchy.



Version number for multiple versions of a hierarchy

The screenshot displays a BI tool interface with three main panels: Universe outline, Result Objects, and Query Filters. The Universe outline on the left shows a hierarchy under 'Query - Hierarchy variable and versions variable' with 'Customer' expanded. It lists 'Customer HierVers [1]', 'Customer HierVers [2]', and 'Customer HierVers [V3]', with a yellow arrow pointing to 'Customer HierVers [2]'. The Result Objects panel on the right shows 'Customer HierVers [2]' and 'Order Quantity', with a yellow arrow pointing to 'Customer HierVers [2]'. The Query Filters panel at the bottom is empty. A yellow box on the right contains text explaining the version numbering.

Universe outline

Query - Hierarchy variable and versions variable

- Customer
 - Customer HierVers [1]
 - Customer HierVers [2]
 - Customer HierVers [V3]
 - Customer HierarchyLong
 - Customer - Cust. Address 2 (Key)
 - Customer - Cust. Address 2 (Text)
 - Customer - Cust. Credit Limit (Key)
 - Customer - Cust. Credit Limit (Text)
 - Customer - Cust. Fax Number (Key)
 - Customer - Cust. Fax Number (Text)
 - Customer - Cust. Phone Number (Key)
 - Customer - Cust. Phone Number (Text)
 - Customer - Cust. Postal Code (Key)
 - Customer - Cust. Postal Code (Text)
 - Customer - Customer Address 1 (Key)
 - Customer - Customer Address 1 (Text)
 - Customer - Short Text
 - Customer - Medium Text
 - Customer - Long Text
 - Customer - Text
 - Customer - Key
- Country
- City
- Order Quantity

Result Objects

- Customer HierVers [2]
- Order Quantity

Query Filters

To filter the query, drag predefined filters here or drag objects here then use the Filter Editor to define custom filters.

Data Preview

When multiple versions of a hierarchy are available, each version is now distinguished by a version number.

Previously, multiple versions of a hierarchy all displayed the same name.

Improved Copying

You can now copy queries, variables, tables and charts from one Web Intelligence document to another.

When you copy an object, all its dependent objects are also copied. For example, all the queries, hierarchies, dimensions, measures, and variables that supply data to a table are copied when the table is copied. Tables and charts can be copied with or without formatting or data.

Home Documents Listing - Object Codes

File Properties

Report Elements Formatting Data Access Analysis Page Setup

Tables Cell Section Chart Other Tools Position Linking

Navigation Map

- Listing - Object Codes
 - 8-Digit Object Code Listing
 - 4-Digit Object Code Listing**
 - 2-Digit-Object Code Listing
 - Report Notes

NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION

4-Digit Object Code Listing

01	REL-TEK REQUIRED
01-00	REL-TEK REQUIRED
01-00	REL-TEK REQUIRED OBJECT CLASS
01-02	EXPENDITURE TRANSFER (FINANCE HQ ONLY)
01-99	GEN FUND RECT ACCT - INACTIVE FEB 2004
02	INVALID OBJECT CODE
02-00	INVALID OBJECT CODE
03	ACCOUNTS RECEIVABLE
03-00	ACCOUNTS RECEIVABLE

Object descriptions can be copied to the clipboard

The screenshot displays a BI tool interface with the following components:

- Universe outline:** A tree view on the left showing a hierarchy starting with 'KL_Hier_Var_Hier_Node', which includes 'Material', 'Country', 'Open orders', and 'Open orders qty'. The 'Open orders' item is currently selected.
- Result Objects:** A panel on the right showing buttons for 'Material', 'Country', and 'Open orders'. A 'Copy description to clipboard' button is overlaid on the 'Open orders' button.
- Query Filters:** A section below 'Result Objects' with instructions: 'To filter the query, drag predefined filters here or drag objects here then use the Filter Editor to define custom filters.'
- Data Preview:** A section at the bottom with a 'Refresh' button and a search bar labeled 'Type a text to filter the values'.
- Footer:** A status bar at the bottom left shows 'Query 1' and at the bottom right shows 'Last refresh date: November 1, 2013 3:14:32 PM GMT-07:00'.

A yellow callout box in the top right corner contains the text: 'The object descriptions that display in the Query Panel can now be copied to the clipboard, enabling you to reference the descriptions when creating and interpreting documents.'

New functions in the formula editor

The formula language contains new functions and operators for working with hierarchical data:

- Aggregate is a new function which returns the default aggregation of a measure, and has an additional parameter to specify a member set expression on a hierarchy.
- Depth returns the depth of a member in a hierarchy.
- IsLeaf determines whether a member is a leaf member.
- Parent, Ancestor, Children, Descendants, Siblings, Lag, and Range allow you to define a member set on a hierarchy.
- Before, After, Before_After, Leaves, Self_After, Self_Before, and Self_Before_After are new operators for working with hierarchies.

Some existing aggregation functions also accept sets of hierarchy members to provide the calculation context of a measure:

- Min, Max, Sum, Count, and Average all have an additional parameter to specify a member set expression on a hierarchy.

Functions

- Aggregate
- All
- Character
- Data Provider
- Date & Time
- Document
- Logical
- Misc.
- Numeric
- Set

Operators

= < <= > >= > .

+ - / * ; ()

After
All
And
Before
Before_After
Between
Block
Body
Bottom
Break
Col
Distinct

Arranged by: Alphabetic order

Report 1 ▼

OK Cancel

Value object in the formula editor

Create Variable

Variable Definition

Name:

Qualification: Measure

Type:

Formula

= [Query 1].[Sales Person]InList()

Formula has not been validated.

Available objects

- BExSimpleHierarchy
 - Country Hierarchy 01 (Q
 - Country Hierarchy 01 (Q
 - Country Hierarchy 01 (Q
 - Sales Person (Query 1)
 - Sales Person (Query 2)
 - Sales Person (Query 3)

Functions

- Aggregate
- All
- Character
- Data Provider
- Date & Time
- Document
- Logical
- Misc.

Operators

- = < <=
- + - /
- Values...
- After
- All
- And
- Before

Description

Sales Person

Sales Person

In the formula editor, there is a Values object in the list of operators, enabling you to select the desired object values from a list rather than typing them.

List of Values

Sales Person
Anne Dodsworth
Janet Leverling
Margaret Peacock
Michael Suyama
Nancy Davolio
Robert King

Enter search pattern

OK Cancel

Data Preview

Query Panel

Universe outline

Master perspective

Type here to filter on the

MARS Codes Listings

- Prompts
- Accounting Codes
- Organization
- Fund
- Program
- Project
- Task
- Object Code
- Budget Program Group (BPG)
- MARS Program Group
- MARS OPT
- MARS Doc-Item
- Project Crosswalk
- Project Category
- Pay Period
- Chart
- PPBES Codes (Used prior to FY09)
- PPBES Distribution (Used prior to FY09)
- PPBES RPM Goal Codes (Used after FY09)

Result Objects

- LO Code / Descr
- FMC / FMC Descr
- Org 1 Active Status
- Org 2 Active Status
- Org 3 Active Status
- Org 4 Active Status
- Org 5 Active Status
- Org 6 Active Status
- Org 7 Active Status
- NWS Office Type
- LO
- LO Descr
- FMC
- FMC Descr

Query Filters

- LO Prompt (Org 1)

Data Preview

LO Code / Descr	FMC / FMC Descr	Org 1 Active Status	Org 2 Active Status	Org 3 Active Status
20 NATIONAL WEATHER S...	20-00 BUDGET USE ONLY ...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y
20 NATIONAL WEATHER S...	20-01 NATIONAL WEATHE...	Y	Y	Y

Type a text to filter the values

Report

You can see the data returned by the query without actually running the report.

Many new charting features

Several new chart types have been introduced, including:

- Pie chart with depth
- Scatter charts
- Bubble charts
- Box plot
- Heat map
- Tree map (useful for hierarchies)

Additional support is also added for hierarchical display in charts, including:

- Visual display of hierarchies in axis labels
- Support for hierarchical levels as feeds

The context menu for pie charts includes the following options:

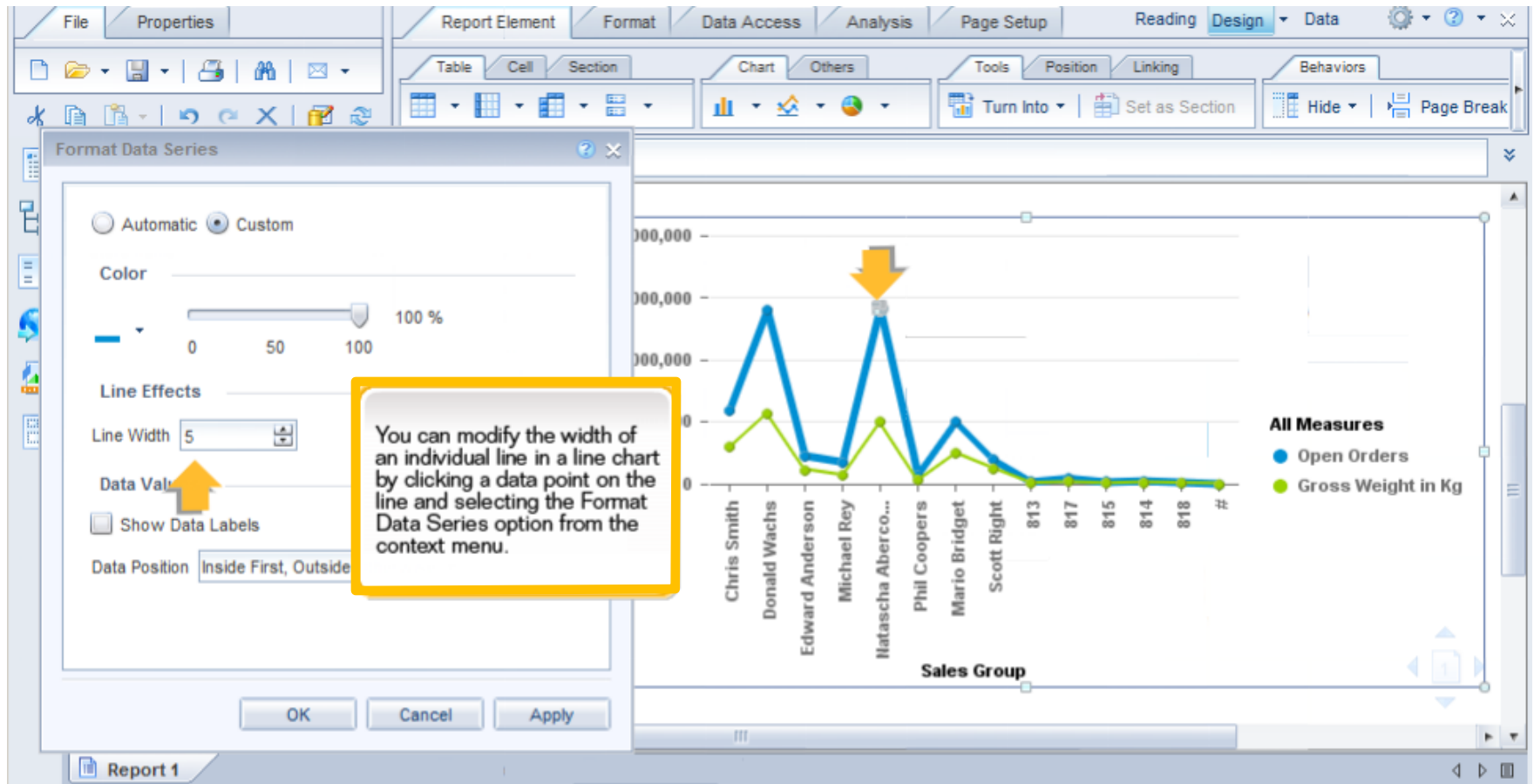
- Pie
- Pie with Variable Slice Depth
- Doughnut
- More Pie Charts...

State	Store name	Quarter	Year	Sales revenue
California	e-Fashion Lo	Q1	2004	\$308,928
California	e-Fashion Lo	Q1	2005	\$398,860
California	e-Fashion Lo	Q1	2006	\$421,390
California	e-Fashion Lo	Q2	2004	\$359,550

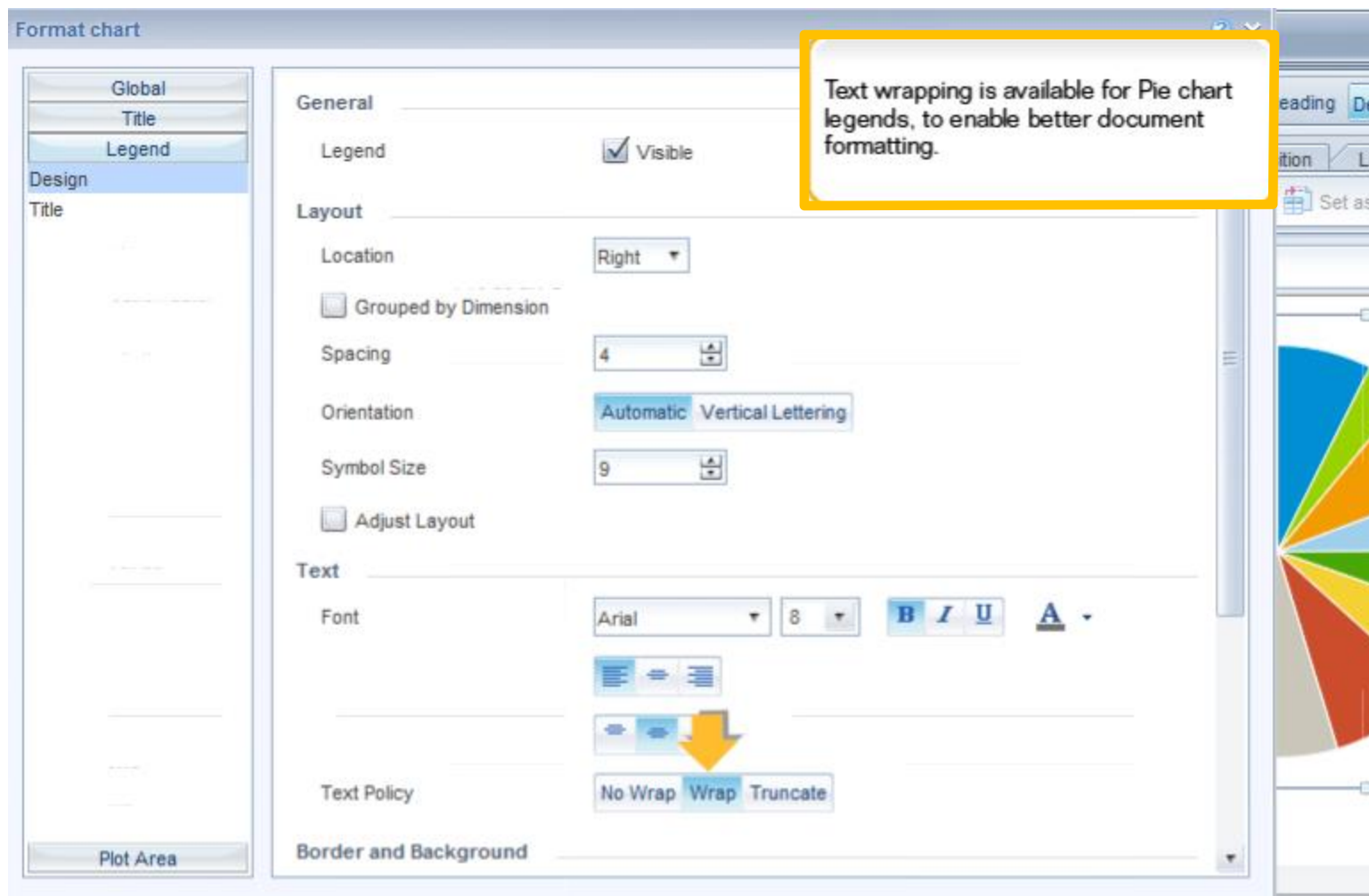
Report 1 Sales by product

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Line Chart: width of an individual line can be modified



Pie Chart: Text wrapping available in the legend



Waterfall Chart: different colors for totals and subtotals

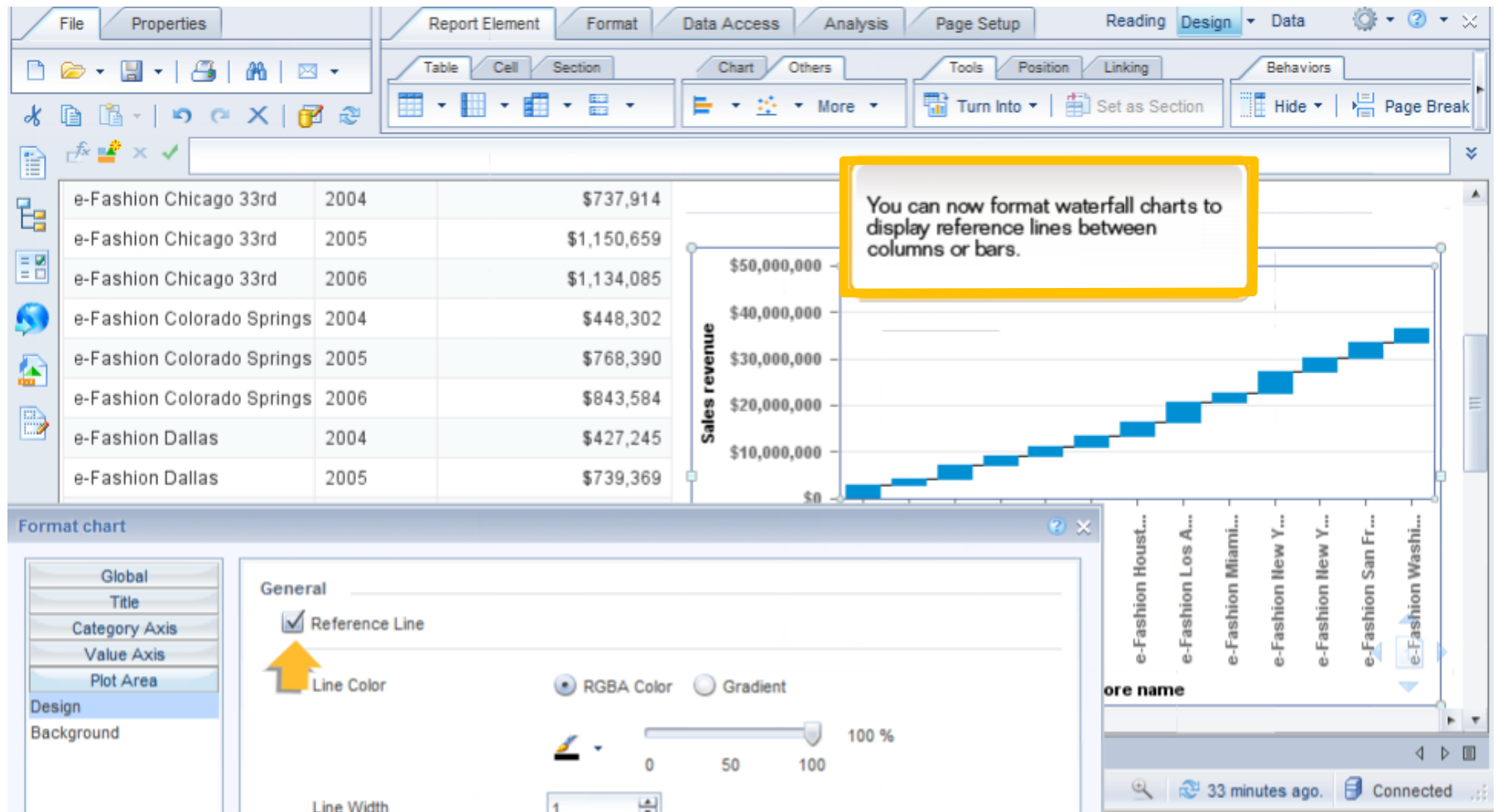
The screenshot shows the 'Custom Format' dialog for a waterfall chart. The 'Palette and Style' tab is selected in the left sidebar. The 'General' section is active, showing settings for 'Start Value Color', 'Total Value Color', 'Negative Value Color', and 'Positive Value Color'. Each has 'Automatic' and 'Fixed Value' options. The 'Total Value Color' is currently set to 'Fixed Value' with a color picker and a gradient slider. The 'Negative Value Color' and 'Positive Value Color' are also set to 'Fixed Value'. The 'Palette settings' section at the bottom shows a 'Color Palette' dropdown set to 'Default'. A yellow callout box contains the following text:

Waterfall charts can now display different colors for totals and subtotals, as well as for positive and negative values. You can configure the settings on the Palette and Style tab of the Format chart dialog.

These enhancements make it easier for users to interpret waterfall charts.

The background shows a partial view of a waterfall chart with categories: Samples, Short sleeve, Soft fabric, Sweats, Turtleneck, and Total. The 'Total' bar is highlighted in green.



Waterfall Chart: Displaying reference lines






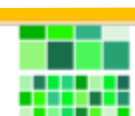


Custom color palettes

Manage Palettes

Built-in





Default Spectrum

Orange Red Blue Green Violet Black and White

Custom




You can create and edit custom color palettes to manage chart colors. Custom palettes are stored within the document in which they are created.


Series Color commands are available in the right-click menu when formatting a chart. These commands enable you ensure that the same colors are used consistently for the same objects in a series of charts.

Create palette

Name

 Creating a new palette identical to an existing palette is possible. Modify the color pattern or cancel.

Color settings



Colors

Color

Opacity
100 %

0 50 100

	Anne Dodsworth	13,392,341.42	15,935
Belgium	Nancy Davolio	115,578.16	498

New data labels control options

In the Data Values tab of the Format Chart dialog, there are new options to control how data labels appear in charts. Additions include new data alignment settings and control over text wrapping.

Note that the options available in the Data Values tab vary depending on the chart type.

The screenshot shows the 'Format Chart' dialog box with the 'Data Values' tab selected. The left sidebar lists the following tabs: Global, General, Area Display, Data Values, Palette and Style, Background, Border, and Layout. The 'Data Values' tab is highlighted. The main area displays a scatter plot with 'Sales revenue' on the Y-axis (ranging from \$0 to \$4,000,000) and 'Quantity sold' on the X-axis (ranging from 0 to 30,000). The plot contains several data points with colored labels. The right pane shows the following settings:

- ☒ Data Label Displaying Mode
- Data Type: Automatic
- Data Position: Inside First, Outside Otherwise
- Data Alignment: Top (indicated by a yellow arrow)
- ☒ Automatic Hiding Mode
- Font: Arial, 8
- Border Size: None
- Border Color: RGBA Color (selected), Gradient
- Spacing: 0
- Background Color: RGBA Color (selected), Gradient
- Text Policy: No Wrap (selected), Wrap (indicated by a yellow arrow)

The 'OK' button is located at the bottom right of the dialog.

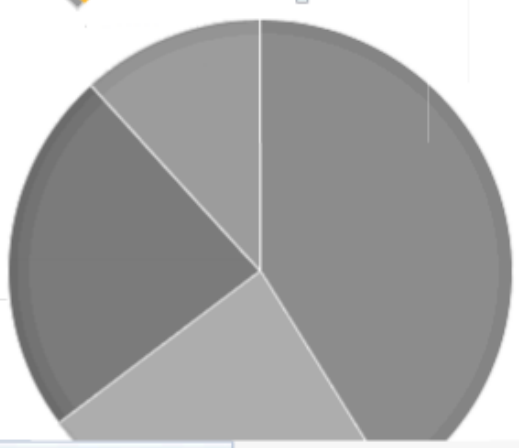
New workflows for building charts

There are also new workflows for building charts. You no longer need to go to Structure Mode to feed a chart, and charts are displayed in gray when feeding is incomplete.

Charts also offer increased interactivity, with tooltips, chart rotation, and easy selection of chart axes, legend, plot area, or titles for editing.

Report 1

State	Store name	Quarter	Year	Sales revenue
California	e-Fashion Lo	Q1	2004	\$308,928
California	e-Fashion Lo	Q1	2005	\$398,860
California	e-Fashion Lo	Q1	2006	\$421,390
California	e-Fashion Lo	Q2	2004	\$353,550



Report 1 | Sales by product

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Visualizations now more flexible

Visualizations are now more flexible and offer more display choices:

- Bar and Line charts can share the same value axis
- A virtual dimension is available for measure names (for example, allowing Measure Name as a category axis)
- Independent axis stacking enables stacked bar and line charts
- Measures can be stacked
- More control is available in feeding (for example, associating a dimension to region shape in a scatter chart)
- Flexible measure type transformations are available
- Formulas can appear in titles
- Legend items can be grouped by dimensions
- Grid display is available for hierarchies or stacked dimensions
- Height and width of chart areas are adjustable as absolute or relative values
- More control is available on lines and markers
- More attractive bar types are available
- New light and shadow, transparency, and gradient effects are available

Report 1 Sales by product

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Merged objects more flexible

You can now add an additional object to a merged object, or remove an object from a merged object, using the right-click menu.

You can also work with merged objects based on hierarchies.

When you merge the same hierarchy from different queries, the merged object maintains the full hierarchy structure. When a hierarchy is merged with a flat dimension, the result is a hierarchy in which any members of the flat dimension that were not part of original hierarchy are inserted at level 1. When two different hierarchies are merged, members with different parents in each source hierarchy are copied with each parent, so calculated results remain accurate with no duplication.

City Cyclists	USA	8,322.1
Customer Sh	USA	110,612.67
Customer Sh	USA	101,370.29
Customer Sh	USA	71,215.28
Customer Sh	USA	78,906.41
Customer Sh	USA	74,887.06
Customer Sh	USA	75,795.93

User's response for an individual prompt

The Prompt option in the Pre-Defined cell list now enables you to insert a cell to display the user's response to an individual prompt.

Previously it was possible only to display the responses to all the prompts in document.

The screenshot displays a software interface with a 'Pre-Defined' dropdown menu open. The menu lists various options, with 'Prompt' selected. A secondary menu is visible, showing options like 'Prompt Summary', 'Enter values for State:', and 'Enter values for Category:'. A yellow arrow points to the 'Enter values for Category:' option. The background shows a 'Sales report' tree on the left and a data table on the right. The table has columns for 'State', 'City', 'Store name', and numerical values. The status bar at the bottom indicates 'Report 1', 'Track Changes: Off', and 'Page 1 of 1'.

State	City	Store name	Value 1	Value 2
California				243
California			2	74
California			3	148
California	Los Angeles	e-Fashion Lo	4	146
California	Los Angeles	e-Fashion Lo	5	107
California	Los Angeles	e-Fashion Lo	6	54
California	Los Angeles	e-Fashion Lo	7	56

User's response for an individual prompt

The Prompt option in the Pre-Defined cell list now enables you to insert a cell to display the user's response to an individual prompt.

Previously it was possible only to display the responses to all the prompts in document.

The screenshot displays a software interface with a 'Pre-Defined' dropdown menu open. The menu lists various options, including 'Document Name', 'Last Refresh Date', 'Drill Filter', 'Query Summary', 'Prompt', 'Report Filter Summary', 'Page Number', 'Page Number/Total Pages', and 'Total Number of Pages'. The 'Prompt' option is selected, and a secondary menu is visible, showing 'Prompt Summary', 'Enter values for State:', and 'Enter values for Category:'. A yellow arrow points to the 'Enter values for Category:' option. The background shows a 'Sales report' tree on the left and a data table on the right. The table has columns for 'State', 'City', 'Store name', and numerical values. The 'State' column is highlighted in blue.

State	City	Store name	Value 1	Value 2
California				243
California			2	74
California			3	148
California	Los Angeles	e-Fashion Lo	4	146
California	Los Angeles	e-Fashion Lo	5	107
California	Los Angeles	e-Fashion Lo	6	54
California	Los Angeles	e-Fashion Lo	7	56

Input control: option to select all values can be disabled

When creating an input control, you can now disable the option to select all values.

This enhancement is useful when working with custom lists of values or large datasets.

Note that when you disable the selection of all values, you must provide a default value.

Also note the option to disable selection of all values is not available for measure or hierarchy objects, or for entry field or calendar type input controls.

Report Element | Format | Data Access | Analysis | Page Setup | Reading | De

Define Input Control

Choose Control Type

Select and define the control

Single value

- Entry field
- Combo box**
- Radio buttons
- List box

Multiple values

- Check boxes
- List box

Use the combo box to allow a user to select one value from a list of possible values. Control has the same behavior as list box while being more compact, list is expanded only when the user selects combo box, otherwise only the current selection is displayed.

Input control properties

Label	Store name
Description	
List of Values	All values from report ...
Use restricted list of values	<input type="checkbox"/> Yes
Default value(s)	...
Allow selection of all values	<input type="checkbox"/> Yes
Operator	Equal to

Required: Default value(s)

<< Previous | Next >> | Cancel

Report 1

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e-Fashion Austin	20
e-Fashion Austin	20
e-Fashion Boston Newbury	20
e-Fashion Boston Newbury	20
e-Fashion Boston Newbury	20
e-Fashion Chicago 33rd	20
e-Fashion Chicago 33rd	20

Input controls copied over when a report is duplicated

When you duplicate a report, any associated input controls are now copied.

Previously, it was necessary to re-create any input controls when duplicating a report.

Store name	Year	Sales revenue
e-Fashion Chicago 33rd	2004	\$737,914
e-Fashion Chicago 33rd	2005	\$1,150,659
e-Fashion Chicago 33rd	2006	\$1,134,085

Training Material available (See on the MARS Portal!)

- **Webinar**—Recorded step-by-step demonstration video, tailored to MARS users.
- The **“Business User” Guide** – This guide conveys basic concepts and step-by step directions for:
 - system log-on
 - system navigation
 - viewing and refreshing reports
 - saving reports
 - sending reports to other users
- The **“Power User” Guide** – This guide conveys more advanced concepts and step-by step directions for:
 - Creating Webi Documents
 - Filtering Document Queries
 - Report Formatting
 - Advanced Report formatting
 - Analytic Features
 - Cross-tab Reports
- **Web-Based Reporting Module Training via Knowledge Accelerator** – Knowledge Accelerator is a web-based training tool that simulates use of the reporting and querying module. Knowledge Accelerator provides the user with an understanding of how the screens flow and provides the opportunity to practice processes/operations in the tool (e.g., opening a report, refreshing a report, etc.).

MARS Support Information

- **Hours: Mon-Fri 7:30 am - 5:30 pm EST**
- **Contact Information**
 - **Email**
 - mars.support@noaa.gov
 - **Phone**
 - (301) 427-8888
 - **Fax**
 - (301) 713-1742